

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

*algus* → Claim 1 (original): Polyethylene molding material having a bimodal molecular weight distribution which has an overall density of  $\geq 0.948 \text{ g/cm}^3$  and an  $\text{MFI}_{190/5}$  of  $\leq 0.2 \text{ dg/min}$ , characterized in that it comprises an amount of from 35 to 65% by weight of low-molecular-weight ethylene homopolymer A which has a viscosity  $\text{VN}_A$  in the range from 40 to  $90 \text{ cm}^3/\text{g}$ , a melt flow index  $\text{MFI}_{190/2.16 A}$  in the range from 40 to 2000 dg/min and a density  $d_A$  of  $\geq 0.965 \text{ g/cm}^3$ , and an amount of from 35 to 65% by weight of high-molecular-weight ethylene copolymer B which has a viscosity number  $\text{VN}_B$  in the range from 500 to  $2000 \text{ cm}^3/\text{g}$ , a melt flow index  $\text{MFI}_{190/5 B}$  in the range from 0.02 to 0.2 dg/min and a density  $d_B$  in the range from 0.922 to  $0.944 \text{ g/cm}^3$ , and in that the fraction obtained during a preparative TREF analysis at a temperature of  $78^\circ\text{C} \pm 3 \text{ K}$  using p-xylene has an average molecular weight of  $\geq 200,000 \text{ g/mol}$ .

Claim 2 (original): Pipe produced from a polyethylene molding material according to claim 1, characterized in that it has a stress cracking resistance of  $\geq 1500 \text{ h}$  and a fracture toughness FT of  $\geq 9 \text{ MJ/mm}^2$ .

Claim 3 (original): Pipe according to claim 2, characterized in that it has a flexural creep modulus, measured in accordance with DIN 54852-Z4, of  $\geq 1350 \text{ N/mm}^2$ .

Claim 4 (previously amended): Pipe according to claim 2, characterized in that has been produced from an ethylene polymer having a bimodal molecular weight distribution which comprises comonomers having from 4 to 10 carbon atoms in an amount of from 2.5 to 4% by weight in the relatively high-molecular-weight fraction B.

Claim 5 (previously amended): Pipe according to claim 3, characterized in that the low-molecular-weight fraction of the ethylene polymer has a melt flow index  $MFI_{2.16/190^{\circ}C}$  in the range from 200 to 800 g/10 min, ~~preferably from 250 to 450 g/10 min.~~

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Claim 6 (previously amended): Pipe according to claim 3, characterized in that the ethylene polymer has a melt flow index  $MFI_{2.16/190^{\circ}C}$  of  $\leq 0.19$  dg/min.

Claim 7 (previously amended): Pipe according to claim 2, characterized in that it has a notched impact strength  $NIS_{ISO}$ , measured in accordance with ISO 179 (DIN 53453), of at least 25  $\text{mJ/mm}^2$  at  $-20^{\circ}C$  and of at least 40  $\text{mJ/mm}^2$  at  $+23^{\circ}C$ .

Claim 8 (previously amended): Pipe according to claim 2, characterized in that it has a resistance to rapid crack growth, measured in accordance with ISO/DIS 13477 on a pipe in pressure class PN 10 having a diameter of 110 mm (S4 test), of  $\geq 20$  bar.

Claim 9 (previously amended): ~~Use of A method of transporting gases through~~ a pipe according to claim 2 ~~for the transport of gases, in particular for the transport of natural gas including the step of flowing gases through the pipe.~~

Claim 10 (previously amended): ~~Use of~~ A method of transporting water through a pipe  
according to claim 2 ~~for the transport of water~~ including the step of flowing water through  
the pipe.

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